



The past decade has registered an annual electricity demand growth well above 10% which had put considerable strain on the power system, specifically on generation which over the years had not been able to match up to demand growth.

The supply of electric power (generation, transmission and distribution) over the coming years will need to expand to meet the growing demand. There will be broad contributions for the electric economy of the nation. Main thrusts: The government has set a target of 12.1% annual increase to increase at a steady rate of 2,660.8 MW to 5,000.8 MW. The corresponding projected energy consumption are 23,678.7 GWh and 23,823.7 GWh.

The broad objective is to increase supply and meet demand for the available power generated. Resources in the country. New transmission corridor construction, installation and refurbishments to improve power supply reliability are on-going and deep-seating C&I sector to increase national capacity to produce power.

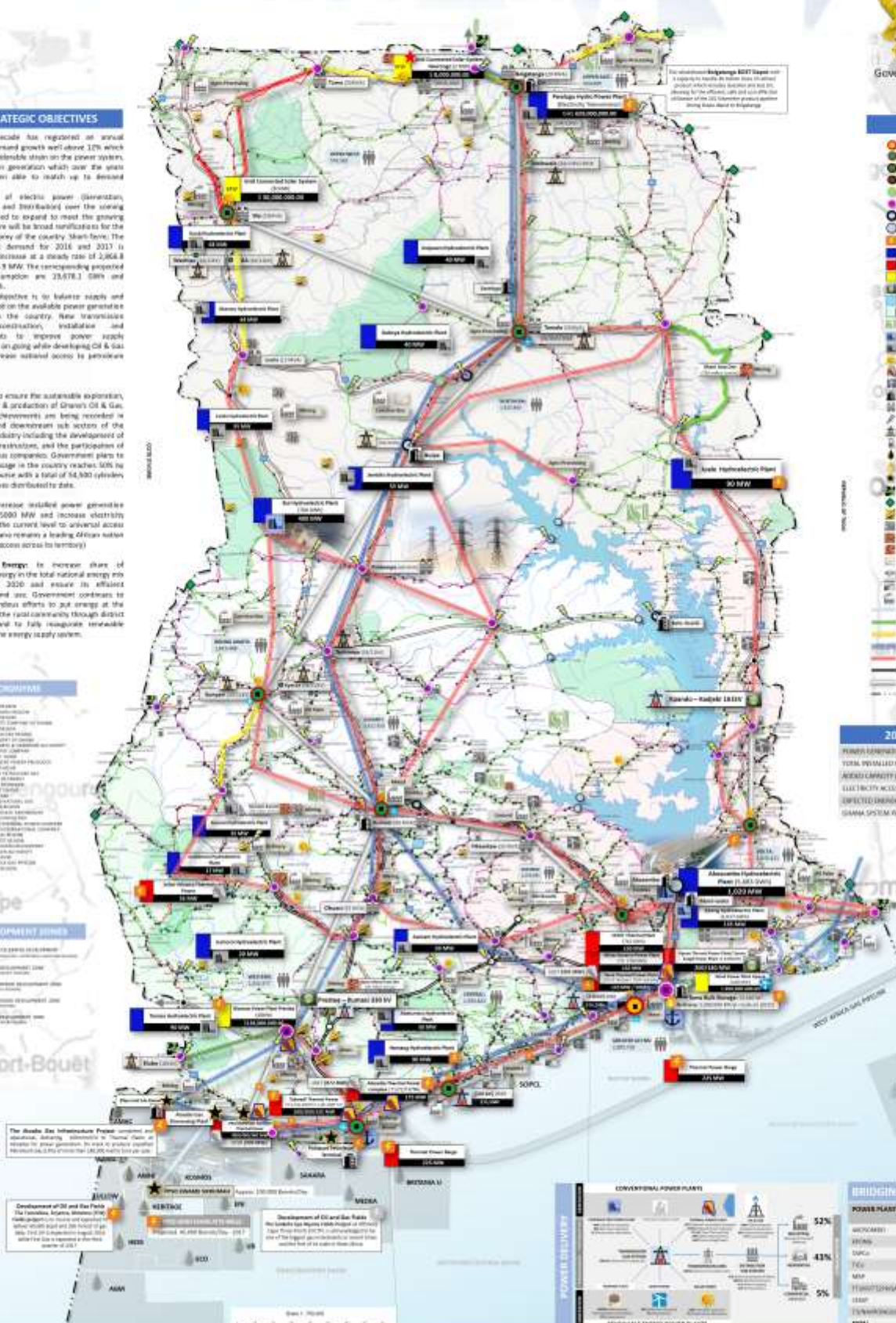
Petroleum: To ensure the sustainable exploration, development & production of Ghazni Oil & Gas, significant achievements are being recorded in upstream, and downstream sub sectors of the Petroleum industry including the development of Oil & Gas infrastructure, and the participation of 121 indigenous companies. Government plans to ensure LPG usage in the country reaches 50% by 2020 in co-line with a total of 14,500 cylinders, and cook stoves distributed by date.

capacity to 5,000 MW and increase electricity access from the current level to universal access by 2025. (Ethiopia remains a leading African nation in electricity access across its territory.)

Renewable Energy: to increase share of renewable energy in the total national energy mix to 10% by 2020 and ensure its efficient production and use. Government continues to make tremendous efforts to put energy at the core step of the rural community through district assemblies and to fully incorporate renewable energy into the energy supply system.

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2010 CAPACITY	
PLANT CAPACITY (2010)	800 MW
TOTAL INSTALLED POWER CAPACITY	2,094 MW
ADDED CAPACITY (2010-11)	450 MW
ELECTRICITY ACCESS	84%
EXPECTED ENERGY CONSUMPTION	25-30 TWh
GHANA SYSTEM PEAK DEMAND	2,800-3,000 MW

POWER DELIVERY

- POWER SOURCES**
 - AC POWER
 - DC POWER
 - BATTERY POWER
 - SOLAR POWER
 - WIND POWER
- POWER DISTRIBUTION**
 - AC DISTRIBUTION
 - DC DISTRIBUTION
 - WIRELESS DISTRIBUTION
- POWER STORAGE**
 - BATTERY STORAGE
 - CAPACITOR STORAGE
 - INDUCTOR STORAGE
- POWER CONVERSION**
 - AC-DC CONVERSION
 - DC-AC CONVERSION
 - DC-DC CONVERSION
- POWER MONITORING**
 - VOLTAGE MONITORING
 - CURRENT MONITORING
 - POWER MONITORING
- POWER CONTROL**
 - VOLTAGE CONTROL
 - CURRENT CONTROL
 - POWER CONTROL

On the right side of the diagram, there are three stacked boxes representing different power levels or states:

- 52%
- 43%
- 5%

POWER PLANT	YEAR	DESIGNED CAPACITY (MW)
WECOMBI	1988	1,000
EPRI	1981	500
DUPC	1980	150
TEC	1986	230
MM	2007	80
THORNTON	1988	270
ESB	2002	120
THORNTON	2003	534